# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED


Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/CEMENT/2018-19 Date: 16.03.2019

## TEST REPORT ON CEMENT

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of Work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Cement |
| Sample Received on | : | 14.03.2019 |
| Period of Testing | : | 14.03.2019 to 16.03.2019 |

The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-2013 |
|---|---|---|---|---|
| 1 | Standard Consistency | IS-4031 (Part -4) 1988 (RA-2014) | 27.50 % | - |
| 2 | a) Initial Setting Time | IS-4031 (Part -5) 1988 (RA-2014) | 140 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) 1988 (RA-2014) | 385 Minutes | Not More than 600 Minutes |
| 3 | Soundness by Le Chartlier Method | IS-4031 (Part-3) 1988 (RA-2014) | 1 mm | Not more than 10mm |

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

*********

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Suvetha. N.L
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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/SAND-Gradation/2018-19 16.03.2019

## TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of Work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Fine Aggregates (Manufactured Sand) |
| Technical Reference | : | IS : 2386 (Part 1) - 1963 (RA-2007) |
| Sample Received On | : | 14.03.2019 |
| Date of Testing | : | 16.03.2019 |

Total Wt. of Aggregates in gms = **1000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2007) | | | |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone-III | Zone-IV |
| 10 | 100 | 100 | 100 | 100 | 100 |
| 4.75 | 98.00 | 90-100 | 90-100 | 90-100 | 95-100 |
| 2.36 | 80.00 | 60-95 | 75-100 | 85-100 | 95-100 |
| 1.18 | 60.30 | 30-70 | 55-90 | 75-100 | 90-100 |
| 600 Micron | 41.70 | 15-34 | 35-59 | 60-79 | 80-100 |
| 300 Micron | 16.30 | 5-20 | 8-30 | 12-40 | 15-50 |
| 150 Micron | 6.10 | 0-10 | 0-10 | 0-10 | 0-15 |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under Zone-II specific limits.

**Note 1 :**
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

**Note 2 :**

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/AGG/GR/2018-19

16.03.2019

## TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of Work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Coarse Aggregates (40mm) |
| Technical Reference | : | IS : 2386 (Part 1) -1963 (RA-2011) |
| Sample Received on | : | 14.03.2019 |
| Date of Testing | : | 16.03.2019 |

Total Wt. of Aggregates in gms= **5000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2011) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 80 | 100 | 100 | - |
| 63 | 100 | - | 100 |
| 40 | 97.70 | 95-100 | 85-100 |
| 20 | 41.40 | 30-70 | 0-20 |
| 10 | 15.36 | 10-35 | 0-5 |
| 4.75 | 3.32 | 0-5 | - |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/AGG/GR/2018-19 16.03.2019

## TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of Work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Coarse Aggregates (20mm) |
| Technical Reference | : | IS : 2386 (Part 1) -1963(RA-2011) |
| Sample Received on | : | 14.03.2019 |
| Date of Testing | : | 16.03.2019 |

Total Wt. of Aggregates in gms= **5000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS :383-1970 (RA- 2011) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 40 | 100 | 100 | 100 |
| 20 | 97.70 | 95-100 | 85-100 |
| 10 | 39.44 | 25-55 | 0-20 |
| 4.75 | 6.14 | 0-10 | 0-5 |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KVS/W.No.10/Steel/2018-19 16.03.2019

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Samples ID | : | 10 mm Bar |
| Technical Reference | : | IS: 1786-2008 |
| Date of Testing | : | 16.03.2019 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 10 | 0.62 | 517 | 558 | 13.2 | O.K | O.K |

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Job No.: CTCE/BBMP/KVS/W.No.10/Steel/2018-19 16.03.2019

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Samples ID | : | 12 mm Bar |
| Technical Reference | : | IS: 1786-2008 |
| Date of Testing | : | 16.03.2019 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 12 | 0.89 | 523 | 565 | 13.35 | O.K | O.K |

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20

22.04.2019

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of the work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Drain Bottom Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 22.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.03.2019 | 22.04.2019 | 8.139 | 487.3 | 21.66 |
| 2 | 25.03.2019 | 22.04.2019 | 8.259 | 495.6 | 22.03 |
| 3 | 25.03.2019 | 22.04.2019 | 8.356 | 512.3 | 22.77 |

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 22.04.2019

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Drain Bottom Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 22.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.03.2019 | 22.04.2019 | 8.288 | 508.5 | 22.60 |
| 2 | 25.03.2019 | 22.04.2019 | 8.310 | 518.6 | 23.05 |
| 3 | 25.03.2019 | 22.04.2019 | 8.406 | 526.9 | 23.42 |

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 22.04.2019

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| * Sample ID | : | Drain Bottom Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 22.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 25.03.2019 | 22.04.2019 | 8.110 | 480.7 | 21.36 |
| 2 | 25.03.2019 | 22.04.2019 | 8.250 | 520.4 | 23.13 |
| 3 | 25.03.2019 | 22.04.2019 | 8.360 | 512.2 | 22.76 |

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 27.04.2019

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
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| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 27.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.03.2019 | 27.04.2019 | 8.110 | 474.2 | 21.08 |
| 2 | 30.03.2019 | 27.04.2019 | 8.205 | 489.5 | 21.76 |
| 3 | 30.03.2019 | 27.04.2019 | 8.352 | 504.8 | 22.44 |

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JAS-ANZ BSCIC ISO 9001 REGISTERED


Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 27.04.2019

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094. |
| * Name of the work | : | Improvements to roads and drains at Ramanna garden Bloom field garden and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 27.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.03.2019 | 27.04.2019 | 8.211 | 480.8 | 21.37 |
| 2 | 30.03.2019 | 27.04.2019 | 8.305 | 492.5 | 21.89 |
| 3 | 30.03.2019 | 27.04.2019 | 8.408 | 511.7 | 22.74 |

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

**Note:**

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 27.04.2019

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| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 27.04.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.03.2019 | 27.04.2019 | 8.379 | 483.5 | 21.49 |
| 2 | 30.03.2019 | 27.04.2019 | 8.284 | 493.1 | 21.92 |
| 3 | 30.03.2019 | 27.04.2019 | 8.455 | 511.7 | 22.74 |

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Job No.: CTCE/BBMP/KVS/W.No.10/CSR-03/907/Cube/2019-20 03.05.2019

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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| * Customer | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
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| * Reference | : | BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019 |
| * Sample ID | : | Cement Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{15}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 03.05.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 05.04.2019 | 03.05.2019 | 8.115 | 370.5 | 16.47 |
| 2 | 05.04.2019 | 03.05.2019 | 8.208 | 384.6 | 17.09 |
| 3 | 05.04.2019 | 03.05.2019 | 8.390 | 392.7 | 17.45 |

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| * Grade of Concrete | : | $M_{15}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 03.05.2019 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 05.04.2019 | 03.05.2019 | 8.157 | 382.4 | 17.00 |
| 2 | 05.04.2019 | 03.05.2019 | 8.324 | 385.9 | 17.15 |
| 3 | 05.04.2019 | 03.05.2019 | 8.218 | 392.8 | 17.46 |

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